

Faculty Profile



CONTACT

Email: vanitha.biochem@bhavansvc.ac.in

ORCID ID: 0000-0001-9791-1211

Vidwan ID: 177004

Name: Mrs. S Vanitha

Department: Biochemistry

Designation: Assistant Professor

Qualification: MSc Biochemistry, APSET

Experience: 17yrs

Area of Interest: Biotechnology, Bioanalytical techniques, Molecular Biology

❖ Publications:

a. International

1. Jagruthi, G., **Vanitha, S.** (2019). Antioxidant, Antimicrobial activity (using Silver Nanoparticles) and Effect of Temperature on Polyphenol content in Spinach (*Spinacia oleracea*), Coriander (*Coriandrum sativum*) and Mint (*Mentha viridis*) extracts, *International Journal of Scientific Research in Biological Sciences*, ISSN 2347-7520, Vol 6, special issue 01.
2. Omkar Pallerla., **Vanitha, S.** (2019). Isolation and Determination of Lipase activity in Germinating *Arachis hypogaea* by Entrapment method, *International Journal of Scientific Research in Biological Sciences*, ISSN 2347-7520, Vol 6, special issue 01.
3. Priyanka., **Vanitha, S.** (2019). Determination and comparison of Chemical properties of fatty acids extracted from Processed Foods, *International Journal of Scientific Research in Biological Sciences*, ISSN 2347-7520, Vol 6, special issue 01.
4. **Vanitha, S.** (2018) Challenges as per ICT based NAAC framework- Environmental consciousness and sustainability (Green Practices), *Newman International Journal of Multidisciplinary Studies*, ISSN 2348-1390.
5. **S. Vanitha.**, L. Vignesh., Sreekar., V. (2017). A study on the effects of cleaning agents (house hold) on seed germination. *International Journal of Advance Research in Science and Engineering*. Vol.6, special issue (01), September 2017, BVCNCS2017

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6. Sukumaran M.K., Sai Padma A., Rajani D., **Vanitha., S** & Padma, S. (2016). Frequency of ABO and Rh Blood groups among High School Children of Alwal, Secunderabad, Telangana, India, *IOSR Journal of Dental and Medical Sciences (IOSR-JDMS)*, Vol 15 (1), 47-49.

7 Sai Padma, A., Sandeep Prasad,T., Rajani., D & **Vanitha, S.** (2015). Effect of estradiol -17 β on arachidonic acid metabolism in sheep uterus: *in vitro* studies. *IOSR Journal of Biotechnology and Biochemistry (IOSR-JBB)*, ISSN: 2455-264X, Vol 1 (5), 34-40.

8. Sukumaran, M.K., Sai Padma, A., Rajani, D., **Vanitha, S** & Padma, S.(2015). Distribution of ABO and Rh blood groups among students of Bhavan's Vivekananda College, Secunderabad, Telangana, India. *IOSR Journal of Dental and Medical Sciences (IOSRJDMS)*, Vol 14, (12), 59-62.

b. National

1.. **Vanitha., S** & Sree Vyshnavi .,P (2021). Determination of Chemical composition in Cooked and Raw Banana stem (*Musa accuminata*) and its efficacy on Kidney stones-*in vitro* study, *Journal of Scientific Research, BHU*, vol 64, (3).

2. Sai Tharun Kumar Guttikonda., **Vanitha,S.**, & Anuradha K., (2017). Screening of inulinase producing bacteria from diverse sources. *Bioscience Discovery*,8(4): 695- 701.

3. Sai Padma., A, Sukumaran., M.K, Padma S., Rajani., D, **Vanitha., S.** (2016). Evaluation of Nutritional Status of College Girl Students in Terms of Hemoglobin Levels and BMI. *Journal of Medical Science and Clinical Research*, Vol 4, (9), 12822-12824.

◆ Papers Presented

1. Presented a paper on “Novel Technologies to combat Pandemics in Future” at the international conference on Recent Challenges in Engineering, Science and Technology (ICRCEST 2K21), Organized by Department of Electronics and Communication Engineering, Ramachandra College of Engineering, Eluru, Andhra Pradesh, 9th and 10th April, 2021.

2. Presented a Poster on “Photocatalytic Degradation of Dyes Using Metal Nanoparticles Synthesized with *Piper Betel* (Betel) Leaf Extract and Fructose as Reducing Agents” at the **4th International conference** on “Recent trends in Bioengineering” organized by MIT school of Bioengineering sciences and Research at MIT-ADT university, Pune, India, 12th and 13th February, 2021.

3. Presented a Poster on Isolation and Characterization of Inulinase produced from *Bacillus tequilensis* using low-cost substrates” at the International e-conference on “Advances in Microbial Biotechnology and Biotherapeutics” (AMTB- 2020), Organized by the Department of Microbiology. University College of Science, Osmania University in association with Centre for

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Microbial and Fermentation Technology (CMFT), RUSA 2.0 and AMI- Hyderabad Chapter, 10th – 12th September, 2020.

4. Presented a paper on “Determination of Chemical composition in Cooked and Raw Banana stem (*Musa accuminata*) and its efficacy on Kidney stones – *in vitro* study” at the 3-day national conference on “Frontiers in Biotechnology and Bioengineering 2020” (NCFBB 2020), Organized by Centre for Biotechnology, Institute of Science & Technology, JNTUH in association with Organization for Women in Science for the Developing World (OWSD), 16th – 18th July, 2020.

5. Presented a paper on “Impact of Sewage Water in presence of Phytohormones (IAA and Kinetin) on Antioxidant enzymes in Germinating *Triticum aestivum* and *Vigna radiata* seeds” at the **two day national seminar** on “Eco-Friendly Strategies for Sustainable Environment”, organized by Faculty of Life Sciences, as a part of National Science Day 2020, Under DBT Star College Scheme, BVC, Hyderabad, 28th & 29th February, 2020.

6. Presented a paper on “Extraction and Precipitation of Inulin and Oligofructans from *Allium cepa*, *Allium sativum* and *Cichorium intybus* using Water and Ethanol”, at the **two day national seminar** on “Eco-Friendly Strategies for Sustainable Environment”, organized by Faculty of Life Sciences, as a part of National Science Day 2020, Under DBT Star College Scheme, BVC, Hyderabad, 28th & 29th February, 2020.

7. Presented a paper on “Documentation of Butterfly Diversity at Bhavan’s Vivekananda College and Defence Colony with survey on Larval host Plants to enhance its Diversity” at the **two day national seminar** on “Eco-Friendly Strategies for Sustainable Environment”, organized by Faculty of Life Sciences, as a part of National Science Day 2020, Under DBT Star College Scheme, BVC, Hyderabad, 28th & 29th February, 2020.

8. Presented a Poster on “Determination and Comparison of Chemical Properties of Fatty Acids Extracted from Processed Foods”, at the two day national seminar on “Innovations in Nanobiotechnology” organized by Department of Biochemistry & Microbiology, BVC, Hyderabad, 27th and 28th February, 2019

9 Presented a Poster on “Determination of Antimicrobial Activity of Spider Cobweb Combined with Silver Nanoparticles and Plant (*Ficus sp*) Extract”, at the two day national seminar on “Innovations in Nanobiotechnology” organized by Department of Biochemistry & Microbiology, BVC, Hyderabad, 27th and 28th February, 2019

10. Presented a Poster on “Isolation and Determination of Lipase activity in germinating *Arachis hypogaea* by Entrapment method” at the two day national seminar on “Innovations in

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Nanobiotechnology” organized by Department of Biochemistry & Microbiology, BVC, Hyderabad, 27th and 28th February, 2019

11. **Presented a Poster on** “Comparative study on the activity of Microbial Inulinases on commercially available Inulin and Inulin extracted from Onion” at the 59th Annual Conference of Association of Microbiologists of India (AMI-2018) and International Symposium on Host-Pathogen Interactions organized by School of Life sciences, University of Hyderabad, Hyderabad, Telangana, 9th -12th December, 2018.

12. **Presented a paper on** “Challenges As per ICT Based NAAC framework- Environmental Consciousness and Sustainability (Green Practices)” at the National Seminar on “Revised NAAC Framework: The Road Ahead Towards Excellence in Quality Education” organized by BVC, Hyderabad, 21st April, 2018

13. **Presented a poster on** “A study on the eating habits and nutritional status among Adolescents (10-19 years) in Hyderabad” at the **NIN Centenary Year – (1918- 2018), First International Conference** on “Nutrition Before, Beyond and During first 1000 Days of Life – Evidence and Action” organized by NIN, Hyderabad, 26th – 28th November, 2017.

14. **Presented a paper on** “A study on the effects of Cleaning Agents (Household) on Seed Germination” at the two day National Seminar on “Internet of Things” Applications and Security, organized by Department of Computer Science, BVC, Hyderabad, 7th & 8th September, 2017.

15. **Presented a paper on** “A study on Phospholipase D activity under salt stress in *Vigna radiata* germinating seeds” at the UGC Sponsored National Conference on “Emerging Trends in life Sciences” organized by Department of Zoology & Department of Genetics, St. Ann’s College for Women, Mehdipatnam, Hyderabad, 9th and 10th March, 2017.

16. **Presented a paper on** “A comparative study on the chemical and mineral composition of *Azadirachta indica*’s Bark, Flower, Leaves and Seeds and Extraction & Determination of Polyphenol content in *Azadirachta indica*.” at the National Conference on “Molecular Insights in Genetics & Biotechnology” Emerging Trends and Future Prospects, organized by Department of Genetics & Biotechnology, Osmania university, Hyderabad, 27th & 28th February, 2017

17. **Presented a poster on** “Effect of Temperature on Physico chemical properties of Groundnut oil and its blend with other edible oils” at the two-day National Seminar on “Recent Advances in Food Biotechnology” organized by Department of Biochemistry and Microbiology, BVC, Hyderabad, 17th – 18th February, 2016.

18. **Presented a poster on** “Determination of Iron content in Fresh and Refrigerated foods and c. Extraction & Evaluation of biological effects of Total phenols from Edible plant parts” at the

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two-day National Seminar on “Recent Advances in Food Biotechnology” organized by Department of Biochemistry and Microbiology, BVC, Hyderabad, 17th – 18th February, 2016.

❖ Awards / Recognitions

Best Poster Award in Industrial Biotechnology category, IDBT-63. International e-Conference on “Advances in Microbial Biotechnology and Biotherapeutics (AMTB-2020), Organized by Department of Microbiology, Osmania University, 10th - 12th September, 2020.

Best Paper Award for the paper titled “Challenges as per ICT based NAAC framework- Environmental Consciousness and Sustainability (Green Practices)” on 21st April, 2018.

Women Scientist Award on the paper titled, “A study on the effects of Ascorbic acid on phospholipase D Activity under Salt stress in *Vigna radiata* germinating seeds” on 9th and 10th March, 2017

❖ Workshops Attended

1. **Biosimilar Workshop** on “Protein aggregation using Dynamic Light Scattering” organized by Institute of Chemical Technology, Mumbai, 28th January, 2021

2. **Two-day National Workshop** on” Day 1: Getting Aligned to the Publishing Process”- Author Workshop organized by Researcher Academy on Campus at Elsevier. Day 2: Getting Aligned to the Publishing Process- Scopus + Science Direct organized by Researcher Academy on Campus at Elsevier, 25th and 26th September, 2020.

3. **Workshop** on “SPARC- INDO-US Immunology Workshop” organized by Indian Institute of Technology (IIT), Ropar, India and The George Washington University, USA, 12th and 13th, June, 2020.

4. **Two Day National Level Workshop on “Free ICT Tools for E-Content Development & Online Teaching”** organized by Department of Science and Humanities, Gojan School of Business and Technology, Chennai, TN, 6th -7th June, 2020.

5. 3 Days **Online workshop** on “**Molecular Docking and Protein Visualization**” organized by Department of Genetics, Aurora’s Degree & PG College, Chikkadpally, Hyderabad in association with EdGene BioMed (OPC) P Ltd, 29th – 31st May, 2020.

6. Three-day **Online Workshop** on” **Online Course Design, Development and Delivery**” organized by Human Resource Development Centre (HRDC), University of Hyderabad, Hyderabad, Telangana, 26th -28th May, 2020.

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7. **Two Day Workshop** on “Molecular Docking – Applications in Drug Discovery” organized by Department of Chemistry, R B V R R Women’s College, Hyderabad, 24th & 25th January, 2019.

8. Three-day **UGC sponsored Workshop** for Research Scholars “Spiritual Values and Ethics”, HRDC (Academic Staff College), Osmania University, Hyderabad, 27th – 29th July, 2017.

9. **Pre- Conference workshop** on Research Methodology NIN Centenary Year – (1918- 2018), First International Conference on “Nutrition Before, Beyond and During first 1000 Days of Life – Evidence and Action” organized by National Institute of Nutrition (NIN), Hyderabad, 26th November, 2017.

10. **Regional workshop** on “Research Based Pedagogical tools”, Funded by Department of Science & Technology (DST), Govt of India and Organized by Centre of Excellence in Science and Mathematics Education at IISER, Pune (Supported by MHRD, Govt of India) and BVC, Hyderabad, 17th -19th January, 2018.

❖ **Training Programs:**

1. **One Week Short Term Program** on Academic Writing organized by the UGC Human Resource Development Centre (HRDC), University of Hyderabad, Telangana, India, 17th – 22nd August, 2020.

2. **6 Day- Skill Development Course** on “High Performance Liquid Chromatography (HPLC), Gas Chromatography (GC) and Fast Protein Liquid Chromatography (FPLC)”, organized by Department of Biotechnology, National Institute of Technology, Warangal from 15th – 20th July, 2019.

3. Completed **TWO Online Certificate Course (NPTEL)** on the topics

a. “Bioinformatics: Algorithms and Applications”, Score 75%, January- April, 2019 (12 Week course)

b. “Introduction to Research”, Score 87%, July- September, 2017 (8 Week Course)

❖ **FDP:**

Five-day online Faculty Development Programme on “Building Competency for Online Teaching” organized by Department of Languages and IQAC in Collaboration with University of Hyderabad UGC- Human Resource Development Centre, Telangana, India, 6th -10th June, 2020.

❖ **Consultancy:**

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1. Ms. Arpita Ravi, Intermediate second year student of Indus Universal School, Yapral, has successfully completed her Summer project titled “Biochemical analysis and Enzymology” 10/5/17 – 18/5/17.

2. Ms. N. Bhuvaneshwari, Intermediate second year student of Indus Universal School, Yapral, has successfully completed her Summer project titled “Biochemical analysis and Enzymology” 10/5/17 – 18/5/17.